Guarding Expert (Android) Mobile Client Software

User Manual (V3.2)

Thank you for purchasing our product. This manual applies to Guarding Expert (Android) mobile client software; please read it carefully for the better use of this software.

The contents in this manual are subject to change without notice.

Contents

Chapter 1 Introduction

1.1 Overview

Guarding Expert (Android) V3.2 mobile client software, which is designed for mobile phone on the basis of Android OS (Version 2.3.3 or higher), can be used to remotely monitor the live video from embedded DVR, NVR, network camera, network speed dome and encoder via wireless network, play back record files, locally store and manage pictures and videos, control alarm output and realize PTZ control as well.
With this software installed in your phone, you are able to log onto the front-end device via Wi-Fi or 3G; besides, if there is no public IP available for the device, it's accessible by using a dynamic domain name, or by mapping ports to the public IP of router.
Notes:
1. Wi-Fi or 3G access service must be supported by the phone.
2. Network traffic charges may be produced during the use of this client software. Please refer to the local ISP.

1.2 System Requirements

The mobile phone should be based on Android OS (version 2.3.3 or higher).
Note: The mobile phone with resolution of 480*800, 480*854, 960*540, 1280*720, 800*1280 or 1920*1080 is supported.

1.3 Conventions

In order to simplify the description, we define the "Guarding Expert (Android) V3.2 mobile client software" as "software" and "DVR, NVR, encoder, network camera, network speed dome" as "device" in the following chapters.

Chapter 2 Installing and Uninstalling the Software

2.1 Installing the Software

Steps:
1. Log onto the **Google Play**.
2. Enter "Guarding Expert" to search the mobile client software.
3. Select the **Guarding Expert** software, download and install it to your phone.
4. After having installed the software successfully, you can click to start the software.

2.2 Uninstalling the Software

Steps:
1. Enter the Application Management interface of your mobile phone (e.g., **Settings > Apps**).
   Note: The path for entering the Application Management interface varies depending on the Android OS version of your phone.
2. Click the software icon.
3. In the App info interface of the software, click **Uninstall** button and then click **OK** button to uninstall the software.

Chapter 3 Running the Software

After having installed the software successfully, click to run the software.

3.1 Interfaces Introduction

The software has five main functions, including Live View, Remote Playback, Device Management, Picture & Video Management and Configuration.
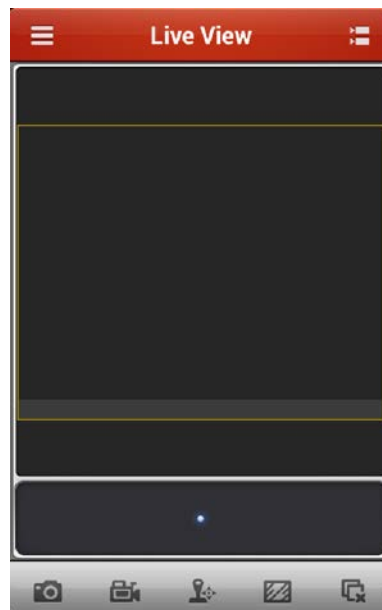
You can click to activate the main menu.

Description of Main Menu

| Menu	Descriptions
Live View	Live view, PTZ control, local recording, alarm outputs control, etc.
Remote Playback	Play back the recorded files stored in the device.
Device	Display device list, add/delete/modify device, view device information, etc.
Picture and Video	Display and manage the local video files and pictures.
Configuration	Configure password protection, software update and email feedback. View software's version information, help and main features.

3.2 Password Protection

With the password protection enabled, only the user that has the password can access the software.

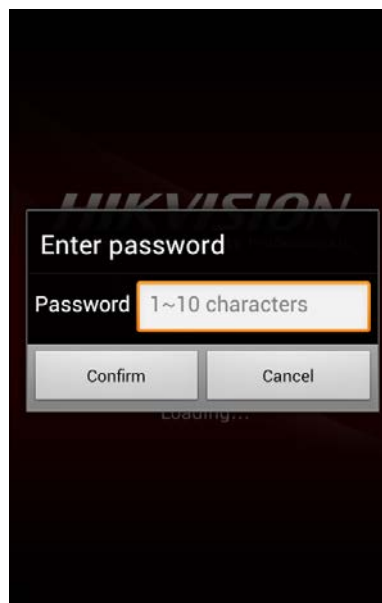**Task 1: Enable Password Protection**

Steps:

1. Click ▤ and select ⚙ to enter the Configuration interface.
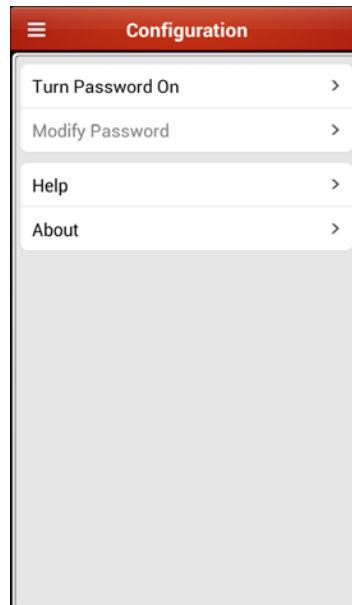
2. Click **Turn Password On** to enter the password settings interface.
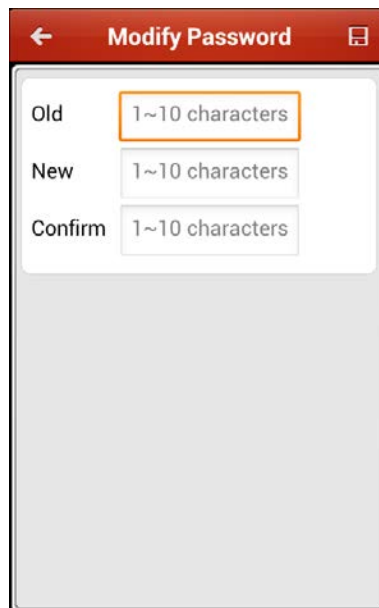3. Enter the password for the software and confirm it to activate the password protection.

    Note: The length of the password should be between 1 and 10.

Next time, if you want to run the software after closing the software, you need to enter the password to log in first.

Task 2: Modify the Password

Click **Modify Password** and enter corresponding information to modify the password.

Task 3: Disable Password Protection

Steps:

1. Click **Turn Password Off** to disable the password protection.
2. Enter the password to confirm the settings.

Chapter 4 Device Management

4.1 Adding a Device

You need to add a device firstly that all operations such as live view, playback and device management can be accessible.

Steps:

1. Click ▤ and select 🖥 to enter the Device Management interface.

2. Click ➕ to add a new device.

    Alias: Edit a name for the device as desired.

    Register Mode: Select the register mode to HiDDNS, IP/Domain, or IP Server.

    ● HiDDNS: When the device is registered on the HiDDNS server, you need to enter the HiDDNS server address and the device domain name registered on the server. You can also scan the serial No. on the label of the device by clicking 🔲 if your device has been registered on the HiDDNS server via serial No..

    ● IP/Domain: You can access the device through fixed IP address or domain name. You need to edit the IP address or domain address and the port of the device.

    ● IP Server: You can access the device through IP Server. You need to set the IP Server address, and device identifier which is the device name or device serial No..

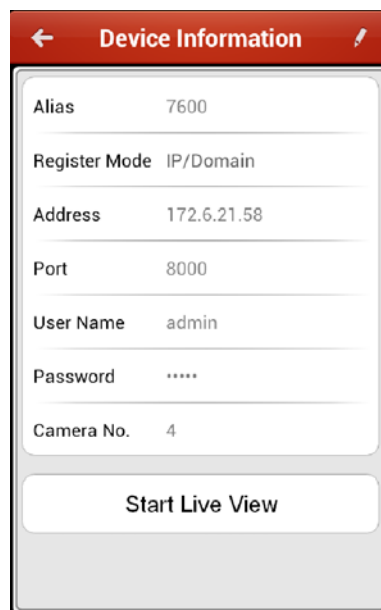   **User Name:** Input the user name of the added device.

    Password: Input the password of the added device.

    Camera No.: After the device is successfully added, the number of the camera(s) under the device can be automatically obtained when the device is online.

3. Click ▣ to confirm the settings.

    Notes:

    1) If the device is successfully added, the software can automatically obtain the camera information of the device when the device is online.

    2) Up to 100 devices can be added.

    3) You can click **Start Live View** to live view the newly added device if the device is online. Please refer to *Chapter 5* for detailed operation about live view.

Click ⬅ to return to the Device Management interface. The successfully added new device will be displayed in the Device Management interface.

4.2 Modifying a Device

Steps:

1. In the Device Management interface, select a device and click the device item to view its parameters.

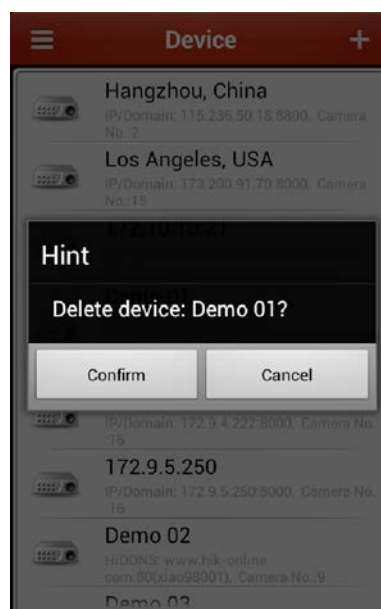2. Click ✎ and then you can modify the parameters of the device according to actual needs.

3. Click ▣ to save the modification.
4. Click ← to return to the Device Management interface.

4.3 Deleting a Device

In the Device Management interface, select a device and long press it to activate the deletion window. Click [Confirm] button to delete the selected device.
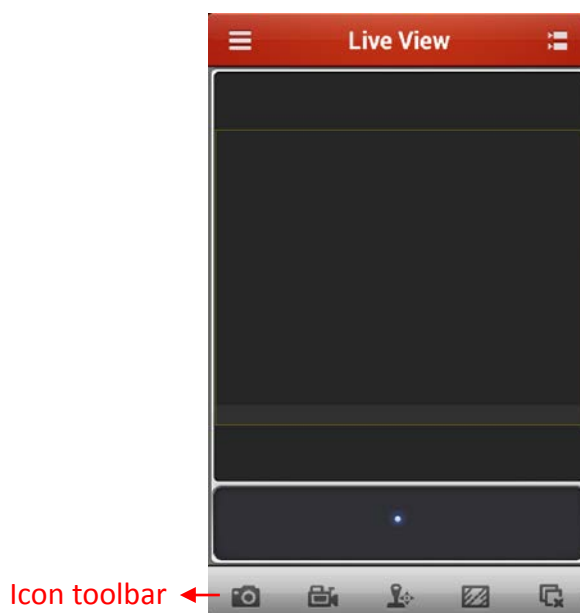
Chapter 5 Live View

After the device is successfully added, you can view live video from the devices, control the alarm output of the device and manage PTZ control as well.

Note: The alarm output and PTZ control should be supported by the added device.

Click ▤ and select 🔲 to enter the Live View interface. The screen will be displayed in 1-division mode by default.

Icon	Description
	Go to the Camera List interface.
	Capture picture of the selected live view window.
	Record the video of the selected live view window.
	PTZ control panel.
	Image quality panel.
	Stop all the live view.
	Audio control.
	Two-way audio.
	Alarm output control panel.
	Digital zoom.

Note: You can slide the icon toolbar to show the hidden icons.

Start Live View

Steps:
1. Click 📇 to display the added camera list. Click a device node to list all the cameras under it.

Note: The name of the camera under the device is obtained from the device.
2. Check ☐ checkbox in the device item to select all the cameras under it, or check ☐ checkbox in the camera item to select the specific camera as desired.

Notes:
1) You can slide the camera list downwards to refresh the device status.
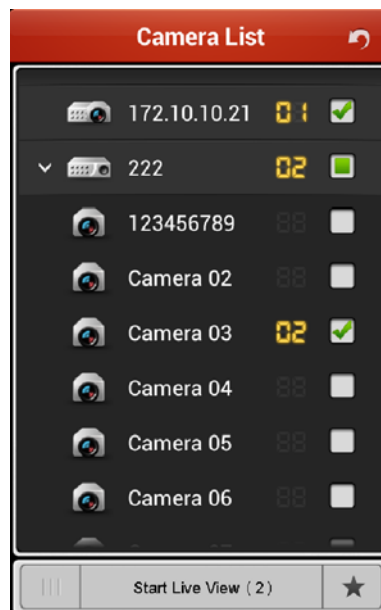2) If the channel-zero is supported by the device and it has been configured, you can select to live view by channel-zero.
3) The number (e.g., **03**) indicates the displaying window No..
4) If there is only one channel under the device, the icon of the device shows as ▣. Otherwise, it shows as ▣.

3. Click **Start Live View** to start live view of the selected camera(s). Or you can click 🔄 to return to the Live View interface.

Notes:
1) Up to 16 cameras can be selected for live viewing at the same time.
2) If the camera is live viewed for the first time, it plays the live video at sub-stream if it supports sub-stream, otherwise it plays at main stream; if not, the camera plays at the stream type of the last time.

Favorites Configuration

You can add the commonly used camera(s) to the favorites so that you can access the camera(s) conveniently.

Steps:

1. Perform the *Step 1* and *Step 2* of *Start Live View* to select the camera(s).
2. Click ★ to add the camera(s) to the Favorites.
3. In the pop-up dialog box, enter the name for the favorites.
4. Click **Confirm** to save the settings.
   Note: Up to 32 favorites can be added.

The successfully added favorites will be shown in the device list area.
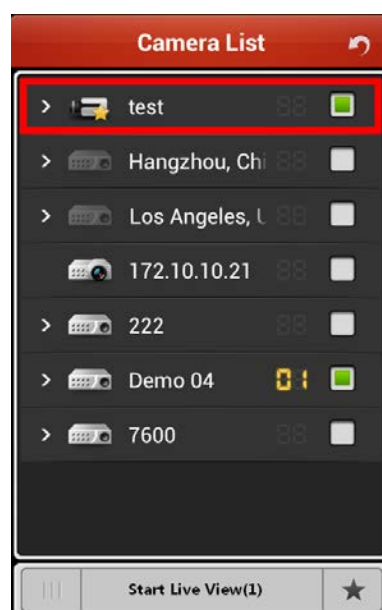
If you want to delete the favorites, you can long press it to activate the deletion window. Click **Confirm** button to delete the selected favorites.

Record & Capture

In live view mode, select a live viewing window and click the to record the video of it, or click the to capture a picture of it.

The videos and pictures can be viewed and managed in the Picture & Video Management interface (refer to *Chapter 7*).

Note: It is recommended not to record 4 cameras simultaneously during live view due to the performance limit of the phone.

PTZ Control

In live view mode, select a playing window and click to activate PTZ control panel, and the changes to .

Note: The PTZ control should be supported by the added device.

You can slide on the live view window to realize the pan left/right and tilt up/down movements. You can also pinch two fingers together to zoom out or spread them apart to zoom in the live view.

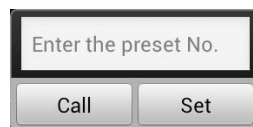| Icon	Description
	Start / stop the auto-scan.
	Zoom control: Zoom+ / Zoom-
	Focus control: Focus+ / Focus-
	Iris control: Iris+ / Iris-
	Set and call the preset.

Setting a Preset

Steps:

1. In the PTZ control mode, slide on the live view window to move the camera to the desired scene.
2. Click to access the following dialog box.

3. In the number area, set the preset No..
   Note: The preset No. should be between 1 and 256.
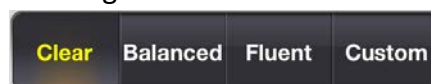4. Click **Set** to finish the preset settings.

Calling a Preset

For the programmed preset, edit the preset No. in the dialog box and click **Call** to call it.
After completion of PTZ control, click to hide the PTZ control panel.

Image Quality

There are three defined image quality types provided, including Clear, Balanced and Fluent. And you can also customize the image quality. Click to adjust the quality according to the performance of your network and phone hardware.
Note: If you change the image quality, the live view and recording of the device may be affected due to the new settings.
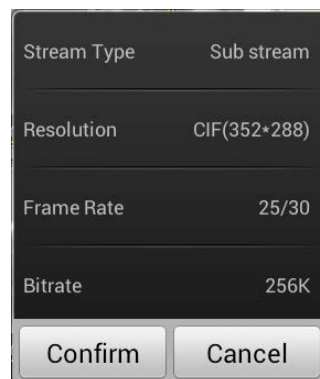

Customize the Image Quality

Steps:

1. Click to activate the customized panel shown below.

2. Configure the parameters according to actual needs, including Stream Type, Resolution, Frame Rate and Bitrate.
3. Click **Confirm** to save the settings.
Note: The live view effect is related to the performance of your network and phone hardware. If the live view is not fluent or the screen appears blurred, please reduce the resolution, frame rate and bitrate of the camera in Custom mode, or set the image quality as Balanced or Fluent mode.
The following table shows the recommended frame rate and bitrate configuration for different resolution at H.264 video compression by Samsung I9100 Galaxy SII (CPU:

dual-core 1.2 GHz, Memory: 1G).

Resolution	1-ch	2-ch	3-ch	4-ch	Recommended Configuration
HD1080P	√				Frame rate: 4fps; Bitrate: 1024Kbps
UXGA	√				Frame rate: 4fps; Bitrate: 1024Kbps
HD900P	√				Frame rate: 6fps; Bitrate: 1024Kbps
SXGA	√				Frame rate: 10fps; Bitrate: 1024Kbps
XVGA	√				Frame rate: 15fps; Bitrate: 1024Kbps
HD720P	√				Frame rate: 15fps; Bitrate: 1024Kbps
XGA	√				Frame rate: 20fps; Bitrate: 1024Kbps
WD1	√				Frame rate: 25fps; Bitrate: 1024Kbps
SVGA	√				Frame rate: 25fps; Bitrate: 1024Kbps
4CIF	√	√			Frame rate: 25fps; Bitrate: 1024Kbps
VGA	√	√			Frame rate: 25fps; Bitrate: 512Kbps
2CIF	√	√	√	√	Frame rate: 25fps; Bitrate: 512Kbps
CIF	√	√	√	√	Frame rate: 25fps; Bitrate: 256Kbps
QVGA	√	√	√	√	Frame rate: 25fps; Bitrate: 128Kbps
QCIF	√	√	√	√	Frame rate: 25fps; Bitrate: 128Kbps

Window Division

When multiple cameras are under live view, they are 4-division mode by default. You can double-click the live view window to display the camera in 1-division mode and double-click again to restore.

When there are multiple pages of playing windows, you can slide the screen to go to the next or previous page.
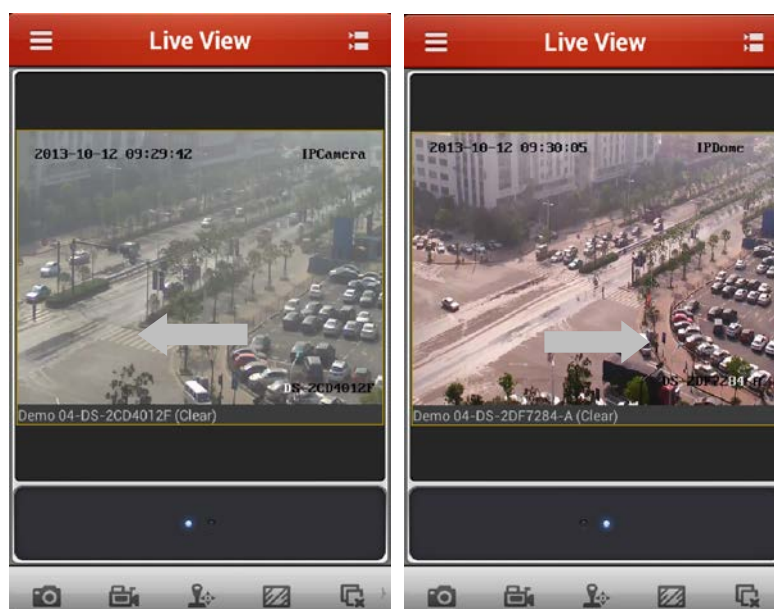
Stop Live View

During the live view, you can click ⬚ (it changes to ⬚) to stop live view of all cameras. And you can also click ⬚ to recover the previous live view.

Or you can perform the following steps to stop live view of the specific camera.

Steps:
1. Click and hold the live view window.
2. Drag the window upwards, and the 🗑 shows on the top of the window.
3. Drag the window to the 🗑 until it changes to 🗑 and then release the window.

Alarm Output Control

You can control the alarm outputs of the added device by the software.
Note: The alarm output should be supported by the device.
Steps:
1. Slide the icon toolbar to access the hidden icons.
2. Click 📷 to activate the alarm output control panel.

3. Select an alarm output ▬ and click it to set it as ▬ to enable this alarm output. You can also click the enabled alarm output ▬ to set it as ▬ to disable it.

Digital Zoom

You can realize the digital zoom during live view.
Steps:
1. Click to select a playing window.
2. Slide the icon toolbar to access the hidden icons.
3. Click 🔍 and the selected window will be display in 1-division mode.
4. Spread two fingers apart to zoom in or pinch them together to zoom out the live view. Or you can double-click on the live view image to realize digital zoom.

Full-screen Live View

During live view, you can rotate the phone to enter the full-screen mode. You can drag the toolbar to adjust its position.

Note: Please release the rotation lock of the phone to realize this function. You can touch the screen to activate the control panel after it hides.

Icon	Description
	Capture picture of the selected live view window.
	Record the video of the selected live view window.
	PTZ control panel.
	Image quality panel.
	Stop all the live view.
	Audio control.
	Two-way audio.
	Alarm output control panel.
	Digital zoom.

Chapter 6 Remote Playback

You can search the recorded video files stored in the added device for playback.

Start Playback

Steps:

1. Click ▤ and select 🔙 to enter the Remote Playback interface.
2. Click 🔳 to display the added device list.
3. Set the start time and end time in the **From** and **To** field to define the search condition.
4. Select a device node and click to list all the cameras under it.
5. Select ⬤ radio button in the camera item to select a camera for playback.
   Notes:
   1) You can slide the camera list downwards to refresh the device status.
   2) If you select ⬤ radio button in the device item, then the first camera of the device is selected for playback.
   3) Only the camera with record during that period can be played back successfully.
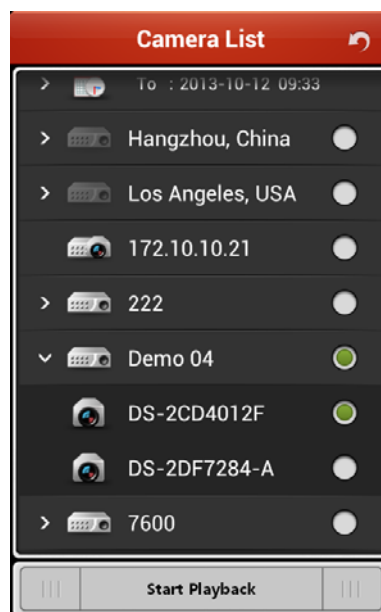
6. Click **Start Playback** to start playback.

7. You can slide the timeline bar to adjust the playback time.

Timeline ◄──────

Icon	Description
📷	Capture picture of the playback window.
✂	Clip the playback video.
❚❚	Pause the playback.
🔊	Audio control.
🔲ₓ	Stop the playback.
🔍	Digital zoom.

Note: You can slide the icon toolbar to show the hidden icons.
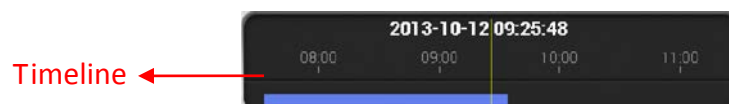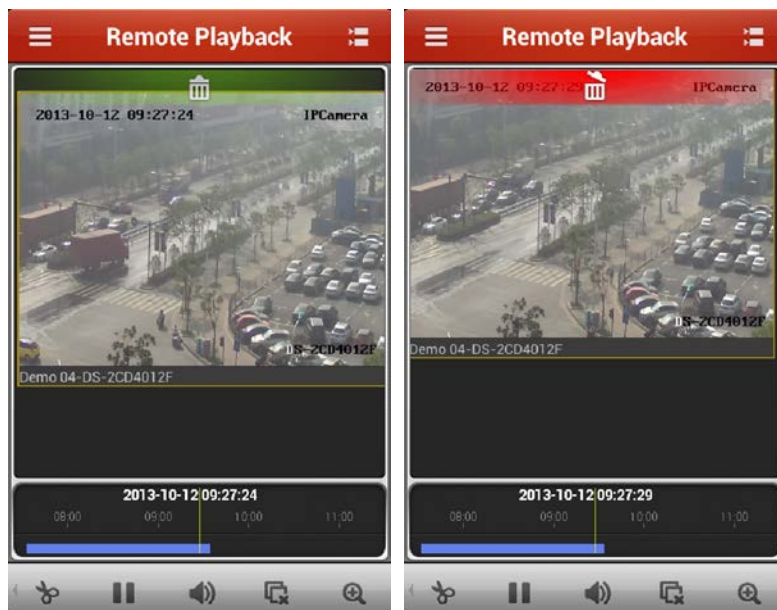
Stop Playback

You can click 🔲ₓ to stop the playback.
Or you can perform the following steps to stop the playback.
Steps:

1. Click and hold the playback window.

2. Drag the window upwards, and the 🗑 shows on the top of the window.

3. Drag the window to the 🗑 until it changes to 🗑 and then release the window.

Clip & Capture

During the playback, you can click 🔗 to clip the playback video, or click 📷 to capture pictures of it.

The clipped video and captured pictures can be viewed and managed in the Picture & Video Management interface (refer to *Chapter 7*).

Digital Zoom

You can realize the digital zoom during playback of video files.

Steps:

1. Slide the icon toolbar to access the hidden icons.
2. Click 🔍 and then spread two fingers apart to zoom in or pinch them together to zoom out the video. Or you can double-click on the playing video to realize digital zoom.

Full-screen Playback

During playback, you can rotate the phone to enter the full-screen mode. You can drag the toolbar to adjust its position.

Note: Please release the rotation lock of the phone to realize this function. You can touch the screen to activate the control panel after it hides.

Icon	Description
❚❚	Pause the playback.
◎	Capture picture of the playback video.
✂	Clip the playback video.
🔊	Audio control.
🔍	Digital zoom.

Chapter 7 Picture & Video Management

In Picture and Video Management interface, you can view and manage the local video files and pictures that you manually record (clip) and capture in Live View and Remote Playback interface. The pictures and video files are stored in the Guarding Expert directory of the SD card.

The pictures and videos are dispalyed by date. If you want to delete the pictures and videos in Picture & Video Management interface, you can perform the steps below.

Steps:
1. You can click and then select the pictures and videos you want to delete.
2. Click to delete the selected file(s). Or you can click to cancel it.

Picture Management

Steps:
1. Click and select to enter the Picture & Video Management interface.
2. Click a picture and the picture displays in full screen. You can click if you want to delete it.

3. You can pinch two fingers together to zoom out or spread them apart to zoom in the picture. Or you can double-click on the picture to realize digital zoom. You can also drag to pan the picture under zoom-in mode.
4. Click to back to the Picture & Video Management interface.

Video Management

Steps:
1. In the Picture & Video Management interface, click a video and the video shows in full screen. Click if you want to delete it.
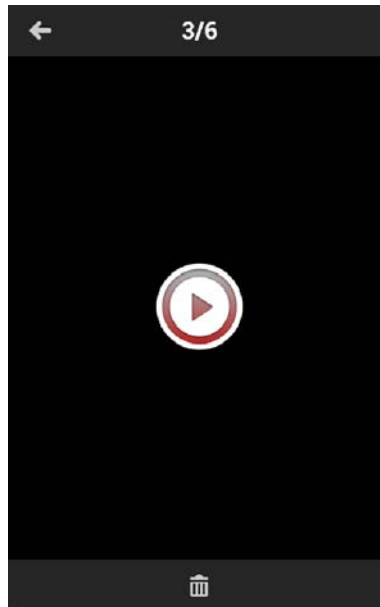
2. Click ⊙ to play it. You can slide the time line bar to adjust the playback time.
   📷 Capture a picture of the playback video.
   ❚❚ Pause the playback.
   🔊 Audio control.

3. You can also rotate the phone to enter the full-screen mode.
   Note: Please release the rotation lock of the phone to realize this function.

Chapter 8 Others

Update the Software

When there is a new version available in the **Google Play**, the software will prompt you to update the software. You can confirm to update the software immediately. You can also cancel it and perform the following steps to update the software next time as desired.

Steps:

1. Click ▦ and select ⚙ to enter the Configuration interface.
2. Click **About** to enter the About interface.

3. If the *New* is in the **Software Update** item, click **Software Update** to activate the software update dialog box.
4. Click **Confirm** to confirm updating the software and enter **Google Play** to update the software.
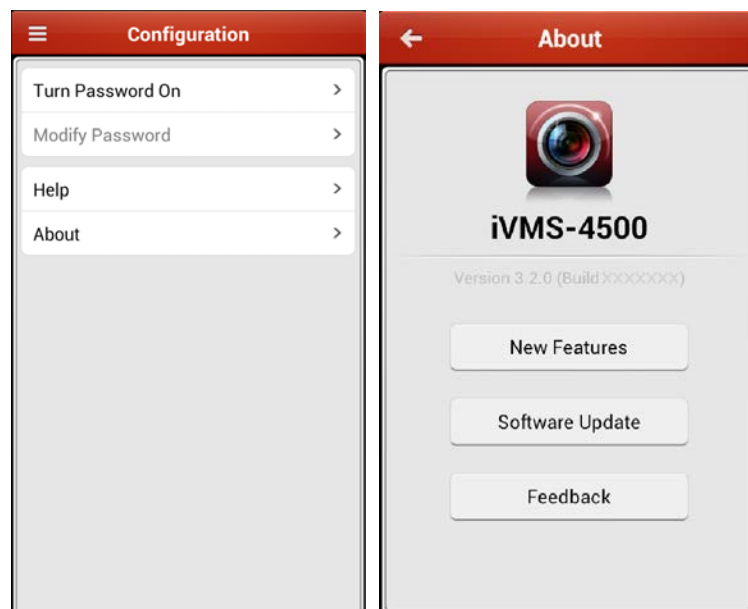   *Note:* The *New* displays when there is a new version available in the **Google Play**.

New Features and Help

In the About interface, click **New Features** to view the main features of the software. In the Configuration interface, click **Help** and you can enter the Help interface. You can view the help of the software.

Feedback

If there is any problem or suggestion when you use the software, please feel free to send emails to us by clicking **Feedback** in About interface. Our technical engineers will handle your problems and suggestions as soon as possible.

Appendix

Version History

V3.2.0

Added New Features:
1. Local storage and management for picture and video.
2. Support local recording during live view and playback mode.
3. Double-click to realize digital zoom of live view, remote playback and captured picture.
4. Disable auto-lock during live view, remote playback and local playback.
5. Recover previous live view of all selected cameras after being stopped.
6. Slide the camera list downwards to refresh the device status during live view and remote playback mode.
7. Recover the remote playback after switching from the background.
8. Remember the previous register mode for adding new device.
9. Add serial No. scanning in HiDDNS register mode.
10. Display the name of the main menu button.
11. Add some hints about configuration or abnormal conditions, e.g., popping up "Please check your network connection." when the network is abnormal.

V 3.1

Added New Features:
1. Support audio control.
2. Support email feedback.
3. Support digital zoom.

V 3.0

Added New Features:
1. New designed GUI provides convenient operations.
2. Up to 16-ch synchronous live view.
3. Support live view by page.
4. Support live viewing channel-zero.
5. Optimize the playing performance.
6. Display the help and main features of the software.
7. Check new version automatically.
8. Image quality configurable during live view mode.
9. Alarm outputs control.
10. Password protection.

Modified:
1. Optimize PTZ control.
2. Delete the Alarm Management settings.
3. Delete the channel configuration.
4. Cancel the registration when logging in for the first time.

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